

COURSE INFORMATION					
Course Title	Code	Semester	L+P Hour	Credits	ECTS
Landscape Engineering Details	LAUD 516		3+0	3	10

Prerequisites	
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Language of Instruction	English
Course Level	Graduate
Course Type	Elective
Course Coordinator	Prof. Dr. Cemil ATA
Instructors	Prof. Dr. Cemil ATA
Assistants	
Goals	To teach basic engineering principles like grading, calculations of excavation or filling, road and bridge construction, lighting, etc.
Content	Informations of land identification, grading, area and volume calculations, road planning, bridge, lighting.

Learning Outcomes	Program Learning Outcomes	Teaching Methods	Assessment Methods
1) Improves the knowledge of peaks of equilibrium height, suggestion peaks of eq improve the knowledge of equilibrium height, leveling etc.	1,3,6,7	1,2,3	B
2) Improves area and volume calculations.	1,3,6,7	1,2,3	B,C
3) Teaches excavation and filling calculations.	1,3,6,7	1,2,3,5	B,C
4) Explains road planning principles	1,3,6,7	1,2,3,5	B,C
5) Teaches road construction and retaining walls.	1,3,6,7	1,2,3	A,B,C
6) Emphasizes the importance of lighting planning.	1,3,4,6,7	1,2,3	B,C
7) Explains basic engineering knowledge.	1,3,6,7	1,2,3	A,B,C

Teaching Methods:	1: Lecture, 2: Question-Answer, 3: Discussion
Assessment Methods:	A: Testing, B: Jury, C: Homework

COURSE CONTENT		
Week	Topics	Study Materials
1	Introduction	Landscape Engin.Books
2	Identifying and Planning of Spaces	Landscape Engin.Books
3	Calculations of Excavations adn Fillings	Landscape Engin.Books
4	Planning of Roads	Landscape Engin.Books
5	Construction of Road	Landscape Engin.Books
6	Planning and Applications of Retaining Wall	Landscape Engin.Books
7	Midterm	Landscape Engin.Books
8	Basic Principles of Lighting	Landscape Engin.Books
9	Lighting Planning	Landscape Engin.Books
10	Engineering Knowledge, Strenght, Tension, etc.	Landscape Engin.Books
11	Strenghts on Road / Bridge Construction	Landscape Engin.Books
12	Equilibrim of Strenghts	Landscape Engin.Books
13	Beams and Coloumns	Landscape Engin.Books
14	Types of Foundations, Equilibrium,Security	Landscape Engin.Books
15	Students presentations	

RECOMMENDED SOURCES	
Textbook	Altunkasa M.F., Peyzaj Mühendisliđi, 1998, Adana
Additional Resources	Seçkin B.Ö. , Peyzaj Uygulama Teknikleri, 2003, İstanbul

MATERIAL SHARING	
Documents	Engineering boks and documents.
Assignments	-

Exams	Midterm, quizzes, presentation, final exam.
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ASSESSMENT		
IN-TERM STUDIES	NUMBER	PERCENTAGE
Mid-terms	1	30
Quizzes	2	10
Project	-	-
Presentation	1	5
Homework	1	5
Final		50
	Total	100
CONTRIBUTION OF FINAL EXAMINATION TO OVERALL GRADE		50
CONTRIBUTION OF IN-TERM STUDIES TO OVERALL GRADE		50
	Total	100

COURSE CATEGORY	
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COURSE'S CONTRIBUTION TO PROGRAM						
No	Program Learning Outcomes	Contribution				
		1	2	3	4	5
1	Develops and deepens the theoretical and practical knowledge at the level of expertise in the field of Urban Design and Landscape Architecture, based on the qualifications of undergraduate education.				X	
2	Has knowledge of legal and managerial issues such as national / international environmental policies and legislation, as well as discusses current developments and changes.			X		
3	Has critical awareness of the nature of knowledge, its sources, and the problems of knowledge production and the testing of knowledge in the areas of Architecture / planning / design and Interfaces between other related areas. Is able to disgust the interaction between disciplines related to the					X

	field.					
4	Has extensive knowledge of the criteria and processes that are effective in determining urban design requirements such as socio-economic and spatial standards and the ability to use these criteria within the design process.					X
5	Knows world examples in urban design and its parts, follows current developments and has an idea about how they can be handled according to the conditions of the country.			X		
6	Has extensive knowledge about the current techniques and methods applied in the field of Biological-Ecological Environmental Protection (Nature conservation, landscape planning, recreational planning, Green area planning, protected area planning, etc.) and solutions for local and global environmental problems and their limitations.				X	
7	Has extensive knowledge about ecosystem, biodiversity and sustainable resource management, rural development, design, planning and technology use.					X
8	Has the ability to prepare urban design / landscape design projects or research projects based on theoretical and practical knowledge by following /producing innovative methods and ideas.			X		
9	Has problem-solving skills necessary for integrating knowledge from different fields and the ability to critically evaluate academic research.					
10	Has the competence to access information, databases and other resources, and conduct specific scientific studies, as well as the ability to share and discuss open and systematic knowledge with experts and non-experts.					
11	Is conscious of the social and professional ethical responsibilities that may arise from the application of information and decisions.					
12	Protects public benefit in the design of urban components and the shaping of the city as a whole, and acts with social responsibility					X
13	Has the attitude to decide and act with judicial awareness by showing respect to human, social and cultural rights, and by being sensitive to the protection of the natural environment and cultural heritage.					

ECTS ALLOCATED BASED ON STUDENT WORKLOAD BY THE COURSE DESCRIPTION			
Activities	Quantity	Duration (Hour)	Total Workload (Hour)
Course Duration (Including the exam week: 16 x Total course hours)	16	3	48
Hours for off-the-classroom study (Pre-study, practice)	16	10	160
Mid-terms	1	3	3

Quizzes	2	1.5	3
Project	-		
Workshop-Presentation	1	15	15
Ödev	1	8	8
Final examination	1	3	3
Total Work Load			240
Total Work Load / 25 (h)			9,6
ECTS Credit of the Course			10